	4			(2)			
•	,			OCT 1 6 2000 %			
ζ.	<u>'</u> 't'			Tang et al. DeMatte et al.	_		3 of 4
C	2	5,965,244	09/12/1999	Tang et al.			
			10/16/1999	DeMatte et al.			-
			01/04/2000	Chen et al.			
		}	02/22/2000			X	
		6,037,050	03/14/2000	Saito et al.			
		6,074,793		Camp et al.			
	,	6,165,606	12/26/2000	Saito et al. Camp et al. Kasahara et al.	/		
FOR	EIGN	PATENT DOCUMENTS					
	T						T. 1
	- }		_		.		Translation
77-1	\vdash	Document Number	Date	Country	Class	Subclass	
يب	2	51-47340		Japan	A		
<u> </u>			03/15/1977	Japan	11		
$\vdash \vdash$	_	55-051583		Japan	++	 	
\vdash	-		11/18/1981	Japan	 		
$\vdash \vdash$	\rightarrow		11/18/1981	Japan	++-	 	<u> </u>
			05/22/1982	Japan	 		
$\vdash \vdash$			07/05/1982	Japan	1 - 1 -	 	
\vdash	-+		07/05/1982	Japan	 		
 	-		08/12/1982	Germany	 	 	
$\vdash \vdash$	-+		09/29/1982	Japan	+	 	
\vdash			06/04/1983	Japan	 	 	
-		2,129,333 B		GB		\ 	
		JP 1160674 (Abstract only)	06/23/1989	Japan		$\mathbb{V}_{}$	
		439,153 A	07/31/1991	EPO		ļλ	
igsqcut			07/01/1992	EPO		/\	
$oxed{oxed}$; WO 95/00340	01/05/1995	PCT	ļ <i></i>	4.\	
		JP 8072387 (Abstract only)	03/19/1996	Japan			
		00730976/EP 81 Exemplary Claims	09/11/1996	EPO			
	-+	 	11/20/1996	EPO	 	 	
	$\neg \uparrow$	JP 09272257 (Abstract		Japan	1 1	 	
	}	only)	10.2	Jupan	/		
		803,374 A2	10/29/1997	EPO			
		2,334,684 A		GB			
	$_{\perp}$ T	968,836 A2	01/05/2000	EPO			
		1,002,657 A1	05/24/2000	EPO			
$oxed{J}$	$\perp I$. 888,904 B1	03/21/2001	EPO	1/		
				TS (Including Author, Title, Date, Pertinent Page			
C_{δ}	S	Ralph K. Iler. Silica Gels Biochemistry." Ed. John V		The Chemistry of Silica Solubility, Polymerization (462-621) 1979.	n, Colloid	and Surface	Properties, and
				Pitch Pacification White Paper Grades; Kenite*;	Celite [®] ; Ha	rborlite [®] ." Ed	l. World Minerals
		Hercules. "Hercon 70, 72,	75, and 78 Catio	nic Emulsions, The Next Generation of Alkaline Si	zing Agent	ts." Ed. Hercu	les, Inc; December
				Ogawa; Research and Development Division "De ial Chemicals, Ltd.; April 23, 1990.	velopment	of Amorphoi	ıs Silica for Ink Jet
				ectrapel Anti-Static Agent." Ed. Calgon Corporat	ion, Water	Managemen	t Division;
$\vdash \vdash$		"Basoplast® 335 D"; BASF Corporation; June 1994.					
	\dashv			g Treatment." Ed. Hercules, Inc.; November 199	4		-
	,			yvinyl Alcohol Typical Properties." Ed. Air Pro-		Chemicals In	nc 1995
		1	1111701 101	jj. i itovitor i jpiom i roportios. Lu. All I 10	-aven alla (onenneuro, II	··· · · · · · · · · · · · · · · · · ·

	4014							
(7.3)	Martifin OL/107; May 1995.							
	"Polyox" Water-Soluble Resins".							
	Micahel C. Wilthiam. "Silica Pigments for the Jet Printablility; Presented at the 1996 TAPPI Coating Conference, Nashville, TN, May 21, 1996.							
	"Kirk-Othmer Encyclopedia of Chemical Technology." Recycling, Oil to Silicon. Ed.John Wiley & Sons; Fourth Edition; Volume 21.							
	CIBA-GEIGY Technical Bulletin. "Fluorescent Whitening Agents for Paper."							
	CIBA-GEIGY Technical Bulletin. "Tinopal HST Liquid." ✓							
	CIBA-GEIGY Technical Bulletin. "Tinopal SCP Liquid."							
	Paper Chemicals. MSA-150 Surface Size. Ed. Morton® Water Based Polymers. ✓							
	Davison Silica Gels. "Typical Chemical and Physical Properties of Silica Gel."							
	"UniQ-Print® 8000 Unique Printability Enhancer" Sequa Chemicals, Inc. Ed. Sequa Chemicals, Inc.							
	D.M. Chapman, Ph.D. "Silica-Gel Coatings for Ink-Jet Media." Ed. Grace Davison.							
	"The Davison Family of Syloid" Silicas. "Ed. Grace Davison Chemical.							
	"Introduction to Silica Gel."							
	"Acronal" PR 8689 X". Ed. BASF Corporation. August 1995.							
Examiner	Calle Shosho Date Considered 3/28/03							

U.S. Department of Commerce Patent and Trademark Office Form PTO-1449 (Rev. 8-88)

INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)



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Group: 1714

U.S. PATENT DOCUMENTS

Examiner Initial*	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
CX	3,298,030	01/10/1967	Lewis et al.	1		
	3,415,671	12/10/1968	Rice	N		
	3,523,818	08/11/1970	Blumenthal			
	3,535,202	10/20/1970	Huang			
	3,615,549	10/26/1971	Ohyama et al.			
	3,655,527	04/11/1972	Curran et al.			
	3,715,219	02/06/1973	Kurz et al.			
	3,759,744	09/18/1973	Schliesman			
	3,889,270	06/10/1975	Hoffmann et al.			
	3,966,572	06/29/1976	Carder			
	4,102,845	07/25/1978	Schröder et al.			
	4,151,666	05/01/1979	Raphael et al.			
	4,168,165	09/18/1979	Kato et al.			
	4,168,338	09/18/1979	Kato et al.		$\perp \perp$	
	4,266,016	05/05/1981	Date et al.			
	4,330,605	05/18/1982	Boston			
		02/01/1983	Sugiyama et al.			
	4,425,405	01/10/1984	Murakami et al.		!	
\longrightarrow	4,440,827	004/03/1984	Miyamoto et al.		1/	
	4,446,174	05/01/1984	Maekawa et al.		V	
	4,460,637	07/17/1984	Miyamoto et al.		ΙΛ	
	4,474,847	10/02/1984	Schröder et al.		Λ	
	4,474,850	10/02/1984	Burwasser			
	4,474,859	10/02/1984	Oshima et al.			
	4,478,910	10/23/1984	Oshima et al.			
	4,490,434	12/25/1984	Oshima et al.			
	4,542,059	09/17/1985	Toganoh et al.			
	4,554,181	11/19/1985	Cousin et al.			
	4,564,560	01/14/1986	Tani et al.			
	4,576,867	03/18/1986	Miyamoto			
	4,620,197	10/28/1986	Miyamoto et al.			
	4,636,409	01/13/1987	Arai et al.			
$-\bot$	4,642,654	02/10/1987	Toganoh et al.			
$\perp \perp \perp$	4,732,786	03/22/1989	Patterson et al.			
	4,743,507	05/10/1988	Franses et al.			
$\bot \bot \bot$	4,758,461	07/19/1988	Akiya et al.			
$\perp \Gamma$	4,780,356	10/25/1988	Otouma et al.			
		12/20/1988	Schubring et al.			
		10/31/1989	Hasegawa et al.			
V		10/31/1989	Riou et al.	1		

			-						2 of 4
4,879,166	11/7/1989	Misuda et al.					I		
4,892,787	01/09/1990	Kruse et al.					I_{-}		
4,900,620	02/13/1990	Tokita et al.	1				T		
		Morohoshi	\sqcap	_			1		
4.915.923		Ogawa et al.	T				1		
			11		T				
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5 057 570	10/15/1991		$\dagger \dagger$		╁╴	$\neg \uparrow$	\top		
7RADEM 5.081.470	10/15/1991		H		╁╴	-1	\top		
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		Yoshino et al.		$\neg \tau$			Τ		
		Yoshino et al.	Π	\neg					
		Okumura et al.		\top					
		Chen et al.		\top		1	\top		
		Ohmura et al.		T					
		Sargeant et al.		I			oxdot		
5,869,177	02/09/1999	Yoshino et al.		\prod		$oldsymbol{ol}}}}}}}}}}}}}}}}$			
		Adair et al.		\prod					
		Hiorns							
5,882,754	03/16/1999	Kuroyama et al.				\Box			
5,882,755	03/16/1999	Igarashi et al.							
			$\sqcup I$						
			Ш		1_	$-\bot$	1_		
			\sqcup		4		+		
			+		↓_	\rightarrow	+		
			11		 		+		
			!		_				
		Chen et al.	₩.		\vdash		Щ.		
5,962,128	10/05/1999	Kuroyama	<u> </u>				₩_		
	4,892,787 4,900,620 4,902,568 4,915,923 4,915,923 4,913,603 5,041,328 5,057,570 5,081,470 5,124,201 5,180,624 5,213,873 5,266,397 5,270,103 5,279,885 5,302,437 5,314,747 5,320,897 5,397,619 5,437,925 5,459,502 5,463,178 5,472,757 5,478,631 5,605,750 5,660,622 5,660,928 5,700,582 5,700,582 5,700,582 5,700,582 5,702,804 5,709,976 5,725,946 5,747,146 5,755,929 5,798,173 5,846,647 5,851,654 5,856,001 5,856,003 5,866,238 5,866,238 5,866,238 5,866,268 5,866,238 5,866,238 5,866,238 5,866,238 5,882,754 5,882,755 5,882,755 5,882,755 5,882,755 5,882,755 5,928,765 5,928,765 5,928,765 5,928,765 5,928,787 5,928,988 5,942,335	931,810 06/05/1990	4,892,787 01/09/1990 Kruse et al. 4,902,668 02/20/1990 Morohoshi 03/15,923 04/10/1990 Ogawa et al. 03/13,810 06/05/1990 Iwata et al. 03/13,810 06/05/1991 Ogawa et al. 03/13,810 06/05/1991 Ogawa et al. 04/1328 08/20/1991 Akiya et al. 04/1328 08/20/1991 Akiya et al. 04/1328 08/20/1991 Akiya et al. 04/1328 08/20/1991 Kurabayashi et al. 05/13,675/70 10/15/1991 Kurabayashi et al. 05/13,873 05/25/1993 Yasuda et al. 05/13,873 05/25/1993 Yasuda et al. 05/20,103 12/14/1993 Ogawa et al. 05/20,103 12/14/1993 Oliver et al. 05/20,103 12/14/1993 Oliver et al. 05/20,103 12/14/1994 Idei et al. 05/20,2437 04/12/1994 Idei et al. 05/20,2437 04/12/1994 Idei et al. 05/20,2437 06/14/1994 Kondo et al. 05/20,2097 06/14/1995 Kuroyama et al. 05/20,3097 06/14/1995 Sakaki et al. 05/20,3097 06/14/1995 Sakaki et al. 05/20,3097 06/14/1995 Suzuki et al. 05/20,3097 06/14/1995 Suzuki et al. 05/20,3097 02/25/1997 Romano et al. 05/20,3098 02/26/1997 Romano et al. 05/20,28098 08/26/1997 Stokes et al. 05/20,28098 08/26/1997 Stokes et al. 05/20,28097 09/20/1998 Kawano et al. 05/20,28097 09/20/1998 Sargeant et al. 05/20,28097 09/20/1998 Kawano et al. 05/20,28097 09/20/1999 Sargeant et al. 05/20,29099 0/20/1999 Sargeant et al. 05/20,290999 0/20/1999 Ommura et al. 05/20,28097/20/1999 Ommura et al. 05/20,28097/20/1999 Ommura et al. 05/20,280,28097/20/1999 Omwura et al. 05/20,28097/20/1999 Omwura et al. 05/20,28097/20/199	4,892,787 01/09/1990 Kruse et al. 4,902,568 02/20/1990 Morohoshi 0,915,923 04/10/1990 Ogawa et al. 1,915,923 04/10/1990 Iwata et al. 3,1810 06/05/1990 Iwata et al. 3,1810 06/05/1990 Iwata et al. 3,1810 06/05/1991 Miller et al. 5,081,470 10/15/1991 Miller et al. 5,081,470 10/15/1991 Krurabayashi et al. 5,124,201 06/23/1992 Kurrabayashi et al. 5,124,201 06/23/1992 Kurrabayashi et al. 5,180,624 01/19/1993 Kojima et al. 5,213,873 05/25/1993 Yasuda et al. 5,206,397 11/30/1993 Ogawa et al. 0,1018/1994 Ohmori et al. 0,1018/1994 Ohmori et al. 0,1018/1994 Ohmori et al. 0,1018/1994 Malhotra et al. 0,1018/1994 Malhotra et al. 0,1018/1994 Kuroyama et al. 0,1018/1994 Kuroyama et al. 0,1018/1995 Kuroyama et al. 0,1018/1999 Kuroyama et	4,892,787 01/09/1990 Kruse et al. 4,900,620 02/13/1990 Tokita et al. 4,900,620 02/13/1990 Tokita et al. 4,900,620 02/13/1990 Morohoshi 04/10/1990 Qgawa et al. 04/10/1990 Wrata et al. 05/05/1991 Wrata et al. 05/05/1991 Wrata et al. 05/05/1991 Akiya et al. 05/05/1991 Akiya et al. 05/05/1991 Akiya et al. 05/05/1991 Akiya et al. 05/05/1991 Kurabayashi et al. 05/05/1991 Kurabayashi et al. 05/05/1992 Kurabayashi et al. 05/05/1993 Xasuda et al. 05/05/1993 05/05/1993 Xasuda et al. 05/05/1993 05/05/1993 05/05/1993 05/05/1993 05/05/1993 05/05/1993 05/05/1993 05/05/1994 05/05/05/1994 05/05/05/1994 05/05/05/05/05/05/05/05/05/05/05/05/05/0	4,892,787 01/09/1990 Kruse et al. 4,900,620 02/13/1990 Tokita et al.	4,892,787 01/09/1990 Kruse et al.	4,892,787 01/09/1990 Kruse et al.	4,879,166 11/7/1989 Misuda et al.